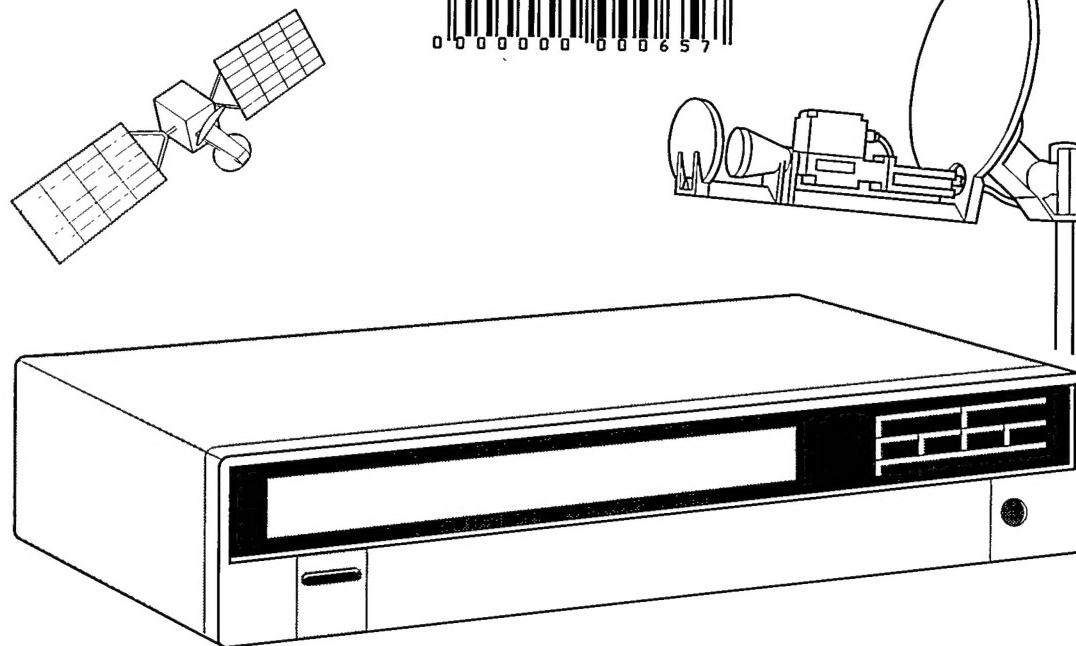




CONSUMER ELECTRONICS

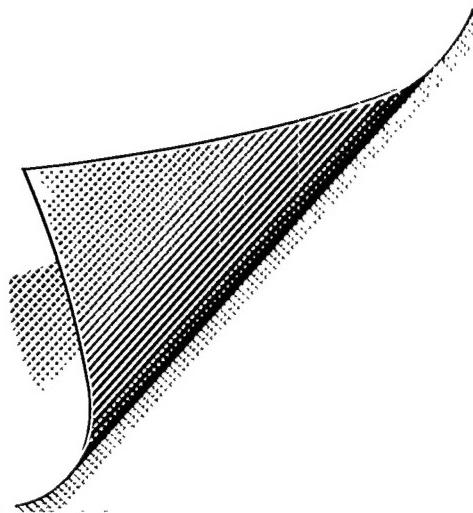
PHILIPS

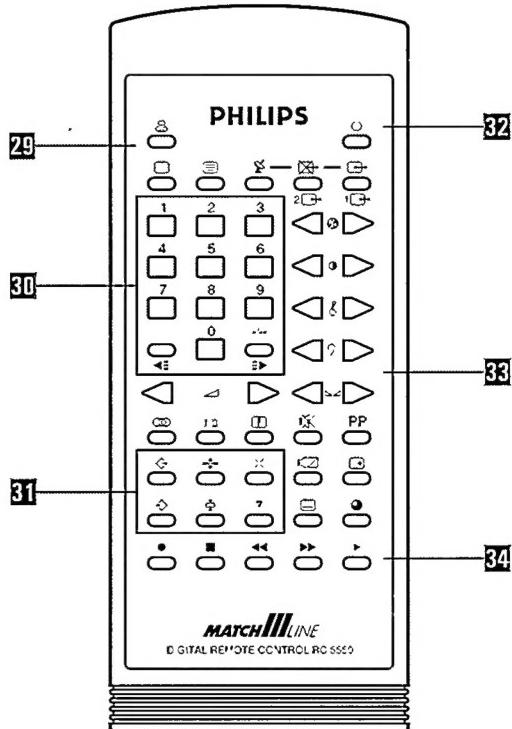
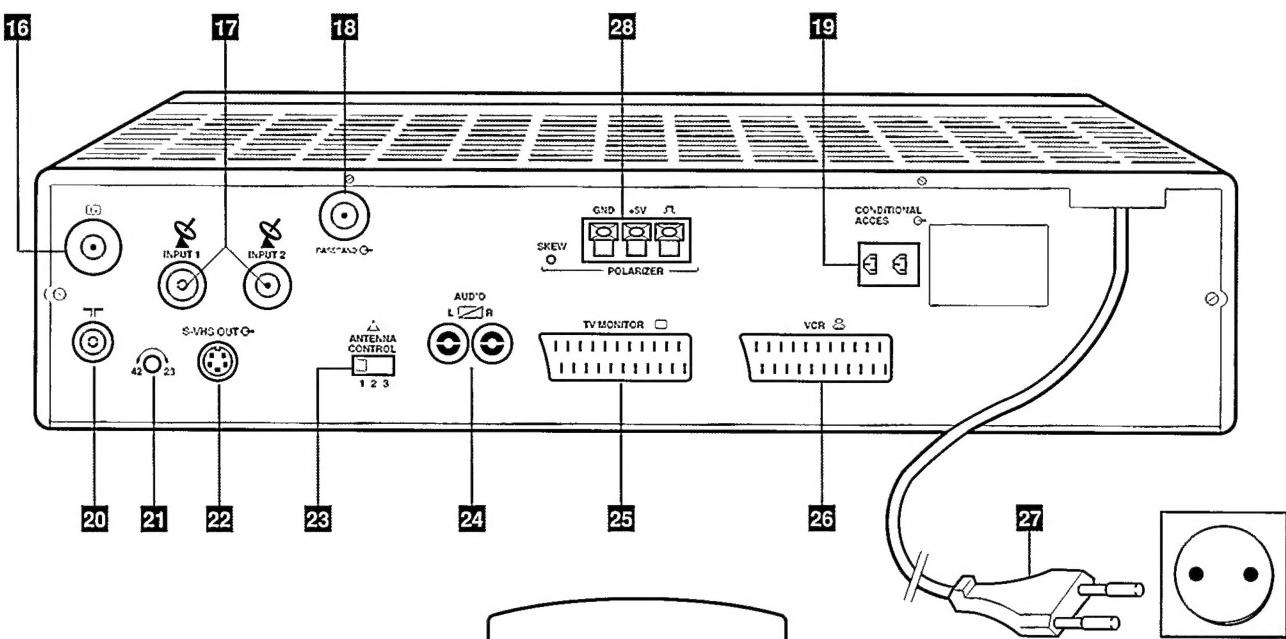
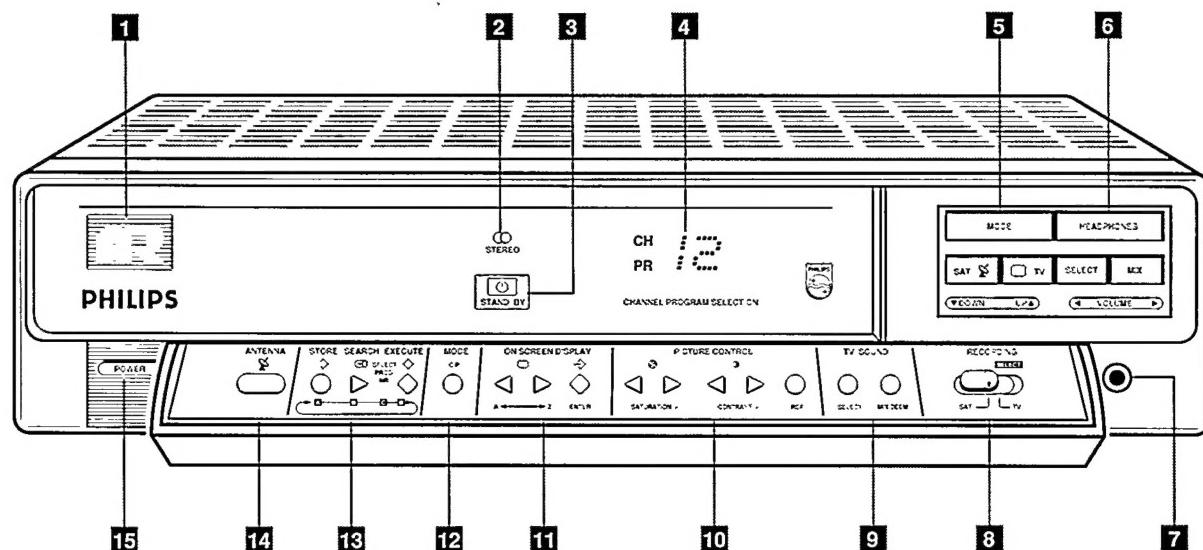


22AV1150

**SATELLITE TUNER
SATELLITEN-TUNERS
TUNER SATELLITE
SATELLIETTUNER
TUNER SATELLITE**

English	Operating Instructions	Attention! Always open this flap page first.
Deutsch	Bedienungsanleitung	Achtung! Immer zuerst dieses Umschlagblatt öffnen.
Français	Mode d'emploi	Attention! Commencez toujours par ouvrir ce rabat.
Nederlands	Gebruiksaanwijzing	Attentie! Altijd eerst deze flap openslaan.
Italiano	Istruzioni per l'uso	Attenzione! Aprire sempre prima questa pagina pieghevoie.







NOTE : If you have difficulties receiving a good picture on some pre-set programmes, try the following :

- o Press SAT  on the tuner.
- o Push the flip-down panel to open it.
- o Press MODE C/P until the display shows CH and a number.
- o Press STORE .
- > The picture should now be correct.
- o Press EXECUTE .

HINWEIS: Wenn Sie bei eingen Vorwahlprogrammen kein einwandfreies Bild empfangen, versuchen Sie folgendes:

- o Taste SAT  am Tuner drücken.
- o Auf die Klappe drücken, um sie zu öffnen.
- o Taste MODE C/P drücken, bis im Anzeigefeld die Angabe CH und eine Zahl erscheinen.
- o Taste STORE  drücken.
- > Das Bild sollte jetzt einwandfrei wiedergegeben werden.
- o Taste EXECUTE  drücken.

NOTE : Si vous avez des difficultés pour obtenir une image correcte sur un programme préréglé, essayez la procédure suivante:

- o Pressez la touche SAT  en façade.
- o Pousser sur le panneau de commande pour l'ouvrir.
- o Pressez la touche MODE C/P pour afficher CH et un numéro de canal.
- o Pressez la touche STORE .
- > L'image doit alors devenir correcte.
- o Pressez la touche EXECUTE .

OPMERKING: Indien het moeilijk blijkt een goede beeldkwaliteit bij enkele voorkeuzeprogramma's te verkrijgen, kunt u het volgende proberen:

- o Druk op SAT  op de tuner.
- o Open het uitklapbare paneel door hier op te drukken.
- o Druk op MODE C/P tot CH en een getal in de display zichtbaar worden.
- o Druk op STORE .
- > Nu moet het beeld goed zijn.
- o Druk op EXECUTE .

NOTA : Se con alcuni programmi di preselezione è difficile ottenere un' immagine di buona qualità, tentare di migliorarla mediante la seguente procedura:

- o Premere il tasto SAT  sul tuner.
- o Premere lo sportellino per aprirlo.
- o Premere il tasto MODE C/P finché il display visualizzi l'indicazione CH ed un numero.
- o Premere il tasto STORE .
- > La qualità dell'immagine deve essere soddisfacente.
- o Premere il tasto EXECUTE .

TABLE OF PRESET PROGRAMMES

Pre-set	Programme	Frequency in GHZ	Channel ±1	Polar	System	Deem- phasis	Sound	Remarks
---------	-----------	---------------------	---------------	-------	--------	-----------------	-------	---------

ASTRA 1A-19.2° EAST

1	Screensport	11.214	13	A1(H)	PAL	D1	S2	
2	Eurosport	11.332	19	A1(H)	PAL	D1	S2	
3	TV3	11.244	15	A1(H)	D2MAC	--	--	
4	TV1000	11.303	18	A1(H)	D2MAC	--	--	Scrambled
5	The Children Channel/ Lifestyle	11.273	16	A1(H)	PAL	D1	S2	Scrambled (Sept '89)
6	Filmnet	11.362	21	A1(H)	PAL	D1	S2	Scrambled
7	MTV	11.421	24	A1(H)	FAL	D1	S2	
8	Sky Arts	11.391	23	A1(H)	PAL	D1	S2	
9	Sky Channel	11.318	19	A2(V)	PAL	D1	S2	
10	Sky News	11.377	22	A2(V)	PAL	D1	S2	
11	Sky Movies	11.436	25	A2(V)	PAL	D1	S2	
12	Landscape	11.288	17	A2(V)	FAL	D1	S2	Scrambled (Oct '89)
13		11.229	14	A2(V)		D1	S2	
14		11.259	16	A2(V)				
15		11.347	20	A2(V)				
16		11.406	23	A2(V)				

TDF1 - 19° WEST

17	Sports 2-3	11.727	01	A3(R)	D2MAC	--	--	Scrambled
18	Canal Enfants / Euromusique	11.804	05	A3(R)	D2MAC	--	--	Scrambled
19	La Sept	11.881	09	A3(R)	D2MAC	--	--	
20	Canal Plus Deutschland	11.958	13	A3(R)	D2MAC	--	--	Scrambled
21	Canal Plus	12.034	17	A3(R)	D2MAC	--	--	Scrambled

TVSAT2 - 19° WEST

22	TVSAT2/1	11.747	02	A4(L)	D2MAC	--	--	SEPT. '89
23	TVSAT2/2	11.823	06	A4(L)	D2MAC	--	--	SEPT. '89
24	TVSAT2/3	11.900	10	A4(L)	D2MAC	--	--	SEPT. '89
25	TVSAT2/4	11.977	14	A4(L)	D2MAC	--	--	SEPT. '89
26	TVSAT2/5	12.053	18	A4(L)	D2MAC	--	--	SEPT. '89

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TV, satellite tuner and S-VHS video recorder

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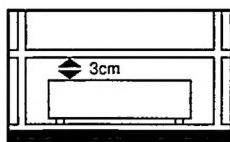
2

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Positioning the Satellite Tuner

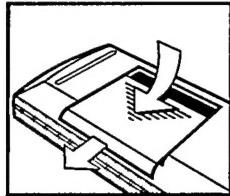
The set is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

- Choose a position at some distance away from radiators or other sources of heat.

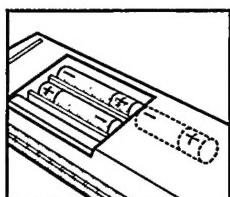


- Leave some space of no less than 3 cm all round the set for ventilation, making sure that curtains, cupboards etc. cannot obstruct the air flow through the ventilation apertures.

Inserting batteries in the remote control



- Remove the cover of the battery compartment.



- Insert three type AA batteries.
- Replace the cover.

Connections

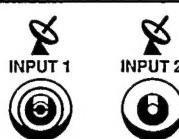
Do NOT connect or modify cables while the satellite tuner is switched on. If necessary, press POWER to switch the tuner off.

Connecting the dish antenna

First, install the dish antenna and the Low Noise Converter (LNC) according to the manufacturer's instructions.
Each LNC has its own output cable.

Plugging in the input cables

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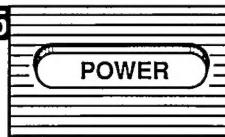


- If you have one cable, plug the connector into \S INPUT 1.
- If you have two cables, plug the connectors into \S INPUT 1 and \S INPUT 2.
- If you have more than two cables, use antenna selection boxes to collect the cables into two groups (each with a single output cable).
- Then plug the connectors of these cables into INPUT 1 and INPUT 2.

Setting the ANTENNA CONTROL

You can only set the ANTENNA CONTROL Δ to the required position when the tuner is switched off.

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If necessary, press POWER to switch the tuner off.

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Position 1: If the distance (cable length) between the tuner and the dish antenna is more than 30 metres. In this case an extra amplifier is necessary to supply the LNC.

Position 2: If you have one or two LNCs.

This is the most common case. In this case, the tuner supplies the LNC via the cable (15V, 400mA max).

Position 3: If you have more than two LNCs.

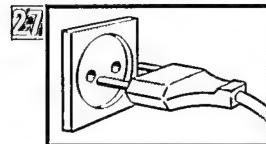
You can connect a total of eight LNCs to your tuner through antenna selection boxes. Each converter is supplied via a box or a separate amplifier.

By means of a switching voltage, which you can programme on your tuner, you can select from eight signals (2 inputs x 4 voltages). This voltage is present on \S INPUT 1 and \S INPUT 2 when you select the respective LNC (A1 to A8) using button \S ANTENNA later on (see 'Selecting the proper satellite antenna input and polarization' in the Section 'Setting up').

Connection to the mains

The satellite tuner is only suitable for a mains voltage of 220V/240V.

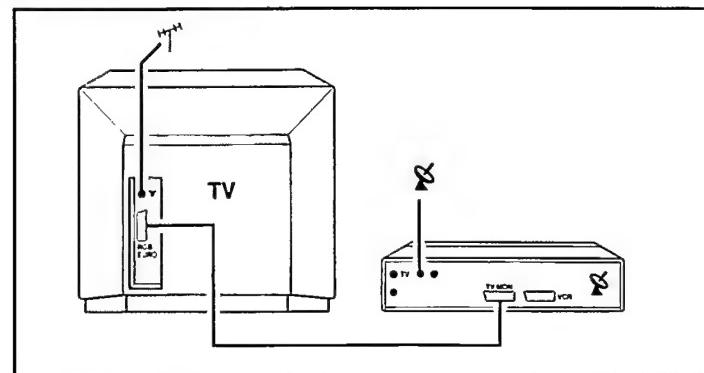
If the mains supply is different consult your dealer.
The mains voltage for the UK is 240V.



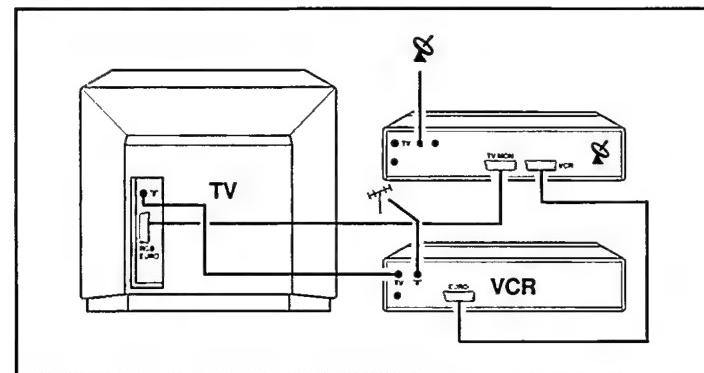
- Connect the satellite tuner to the mains supply socket.

Connection to TV (or monitor) WITH Euroconnector

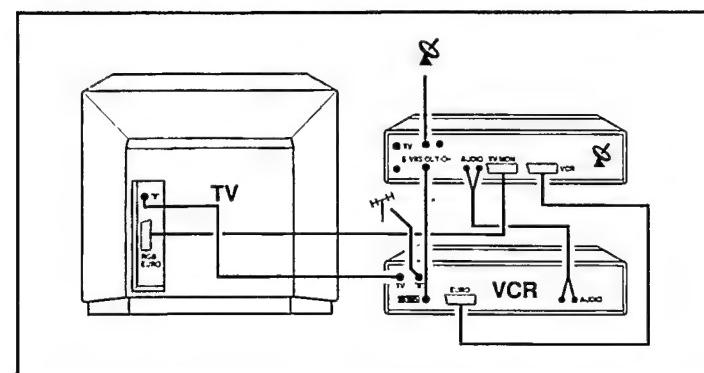
TV and satellite tuner



TV, satellite tuner and video recorder



TV, satellite tuner and S-VHS video recorder

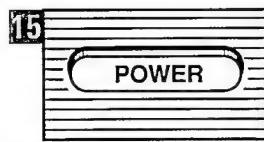


The S-VHS signal is only available for D2 MAC signals; see also chapter 3 'programming'.

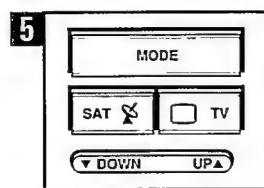
Checking the connections

① Switch on the TV.

② Select the Euroconnector.
(For a Philips TV press \square or $1 \square$ on the remote control, or A/V on your TV.
If in doubt, consult the operating instructions of your TV.)

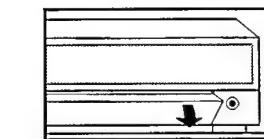


③ Press POWER to switch on the satellite tuner.



④ Press SAT \square to select the satellite mode.

⑤ Press ∇ DOWN until the display of the tuner shows PR 0 or PR 00.



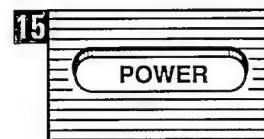
⑥ Open the flip-down panel to open it..



⑦ Press \triangleright STORE.
> The indications in the display flash.
> A picture should be shown on the TV screen.



⑧ Press \triangleright STORE again.
> The indications in the display stop flashing.

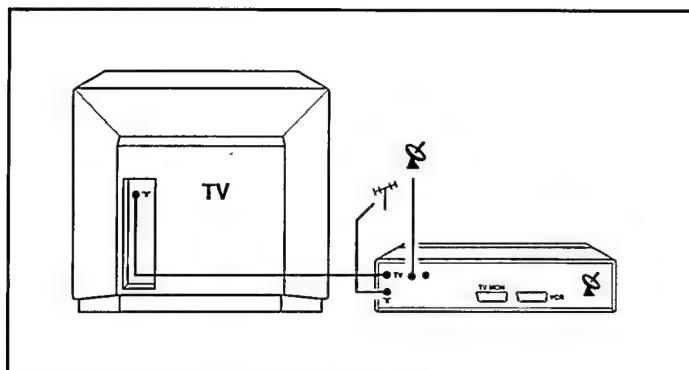


⑨ Press POWER to switch off the tuner.

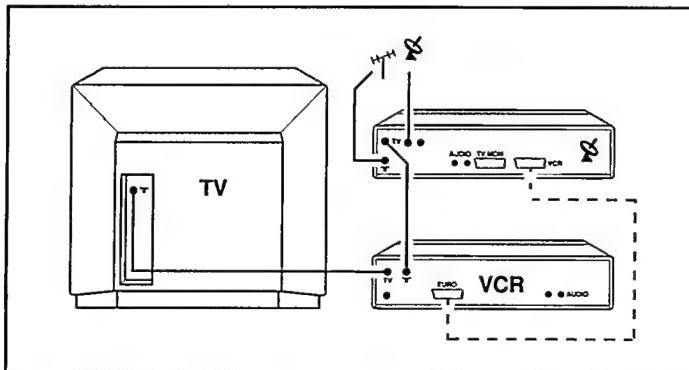
⑩ Switch off the TV.

Connection to a TV WITHOUT Euroconnector

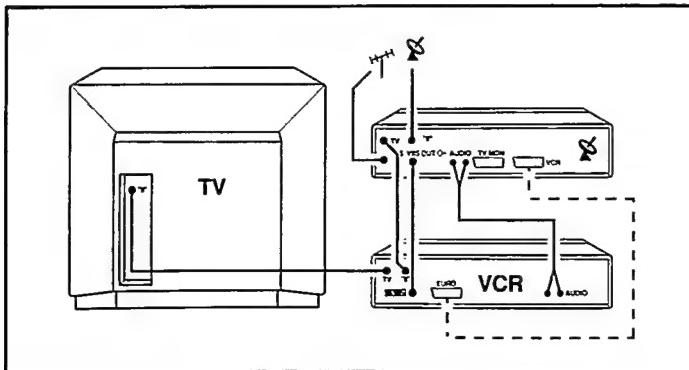
TV and satellite tuner



TV, satellite tuner and video recorder



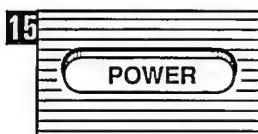
TV, satellite tuner and S-VHS video recorder



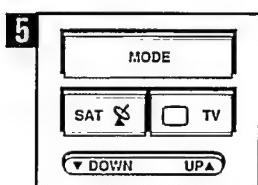
The S-VHS signal is only available for D2 MAC signals; see also chapter 3 'programming'.

Checking the connections

- ① Switch on the TV.

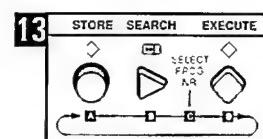
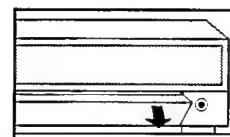


- ② Press POWER to switch on the satellite tuner.



- ③ Press SAT to select the satellite mode.

- ④ Press ▼ DOWN until the display of the tuner shows PR 0 or PR 00.



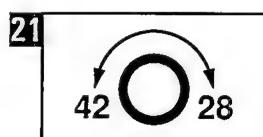
- ⑤ Push the flip-down panel to open it.

- ⑥ Press STORE.
The indications in the display flash.

- ⑦ Tune your TV until you have found the channel on which you can receive the satellite tuner.
(This is similar to tuning your TV to a TV station. If necessary, consult the operating instructions of your TV.)
See the illustration to see what your satellite tuner channel looks like.



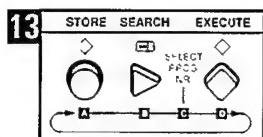
You cannot find optimum reception?



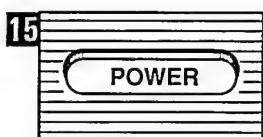
- With a small screwdriver, adjust the channel 42-28 channel control on the back of the satellite tuner.
- Tune your TV again until the satellite channel is received properly.

The reception of the satellite channel is good?

- ⑧ On your TV, select a programme number (normally PR0 or PR1) for the satellite channel.



- ⑨ Press STORE again.
The indications in the display stop flashing.



- ⑩ Press POWER again to switch off the satellite tuner.

- ⑪ Switch off the TV.

The normal TV programmes are only passed on to your TV when the satellite tuner is switched on, or switched to standby (see the Section 'Operation').

Connecting the polarizer

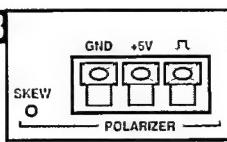
Signals from a satellite tuner are transmitted with different polarizations. There are 4 kinds of polarizations:
DBS (TV satellites like TDF and TV-SAT) transmit with circular polarization (left hand circular (L), or right hand circular (R)).
All other satellites (like ASTRA) transmit with linear polarization (horizontal (H) or vertical (V)).

To distinguish between these polarizations automatically, you need a device called a polarizer.

This device is connected to your satellite antenna. Your satellite tuner can automatically control this polarizer by means of the connections given. Afterwards you can programme, with each preset, the proper polarization.

To make the satellite tuner select the proper polarization with each preset automatically:

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Connect the 3 small leads coming from your antenna cable to the POLARIZER connectors on the back of your satellite tuner:

- the black lead to GND
- the red lead to +5V
- the white lead to Π.

Additional connections

AUDIO L \square R

(If you wish to use your HiFi installation to listen to satellite programmes)

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- Connect the output sockets AUDIO \square L (left channel) and AUDIO \square R (right channel) to a pair of left and right input sockets on the HiFi installation. If you have a filmnet-decoder, connect AUDIO L to AUDIO IN of that decoder.

DO NOT connect AUDIO L \square R to the PHONO sockets of the HiFi installation.

BASEBAND \ominus

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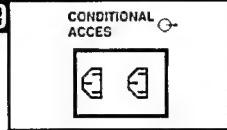


- Connect, for example, a FilmNet decoder to output socket BASEBAND \ominus (PAL deemphasis). If you have a filmnet-decoder, connect BASEBAND \ominus to VIDEO IN of that decoder. (The antenna-output of the filmnet-decoder should be used for connection to your TV or VCR).

CONDITIONAL ACCES \ominus

Your satellite tuner is prepared for the reception of scrambled TV signals (e.g. for Pay-TV). For this, a de-scrambler must be fitted in your tuner.

19

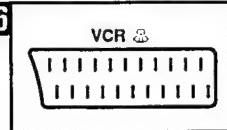


- Connect the associated payment card reader to CONDITIONAL ACCES \ominus .

VCR \square

You can also use the VCR Euroconnector to connect, for example, a personal computer.

26



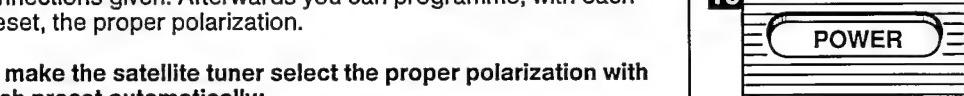
- Connect the equipment to VCR \square .

SETTING UP

Switching on/off

Switching on

15

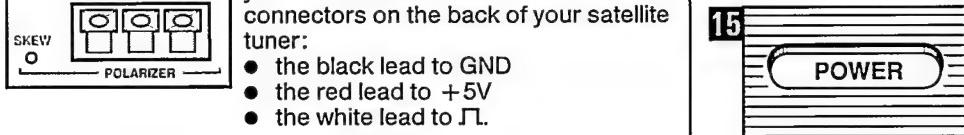


- Press POWER.

If you do not get a good reception, see 'You cannot find optimum reception' under step ⑦ on page 4.

Switching off

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- Press POWER again.

Programming

Your satellite tuner has already been pre-programmed in the factory. The corresponding programme numbers can be found in the 'Table of programmes' delivered with your satellite tuner.

TV stations transmit their programmes on channels.

Channel numbers are indicated by two-digit numbers (e.g. CH09).

Each station found can be stored under a programme number (1 to 39).

Programme numbers consist of one (e.g. PR7) or two digits (e.g. PR17 or PR07).

When tuning, you can receive D2 MAC signals or PAL/SECAM signals.

D2 MAC signals are indicated by various information blocks on the screen (On Screen Display = OSD).

If PAL/SECAM signals are received NO information blocks appear on the screen. The information is indicated on the tuner display.

If you have good picture but bad sound, just continue programming.

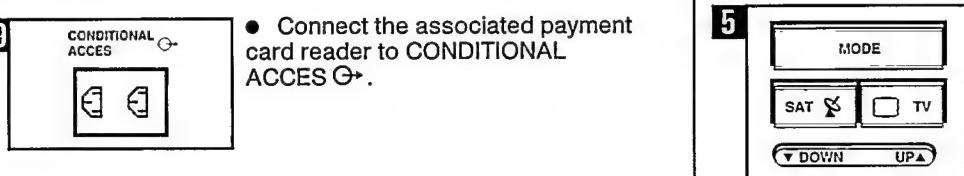
For PAL/SECAM-signals, the sound may have to be programmed separately.

How to do this: read 'sound selection PAL/SECAM'.

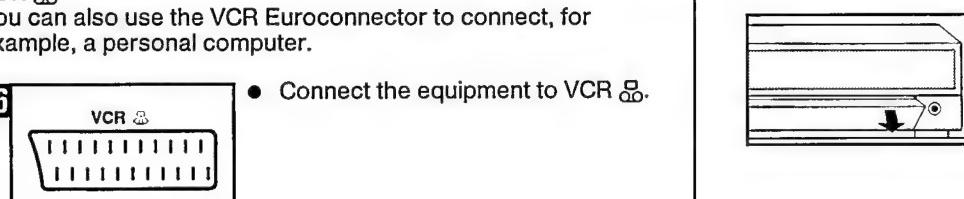
Storing satellite TV stations

1 Preparation

5



- Press SAT \square .



- Push the flip-down panel to open it.

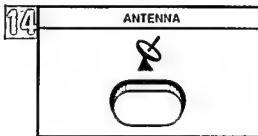


- Press STORE  to open the memory.

> In D2 MAC the OSD (On Screen Display) shows:
 — The name of the broadcasting station (if transmitted).
 — The number of the selected LNC.
 — The channel number.
 — The programme number (PR is flashing).



2 Selecting the proper satellite antenna input and polarization



- Press ANTENNA  once or twice to select INPUT 1 or INPUT 2.
 Most likely you will only use INPUT 1.
 > The OSD indication A1 ... A4 corresponds to INPUT 1. The OSD indication A5 ... A8 corresponds to INPUT 2.

Choosing the proper polarization
 See 'Connecting the polarizer' in the section Installation.

- Choose from the table of programmes a 'POLAR' setting (e.g. H for horizontal).
 > The corresponding antenna indication is then A1 (or A5 for INPUT 2).
- Press ANTENNA  until the wanted antenna indication (in this example A1) is shown on the TV screen.
 You can now tune to all stations that have a 'POLAR' setting H (A1) on the satellite your antenna is pointing to.

3 Searching for the stations



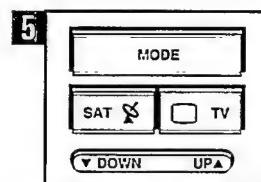
- Press SEARCH .
- > Channel numbers (e.g. CH17) run until a station is found.

Is the picture quality poor or has the wrong station been found?

- Press SEARCH  again or adjust the polarizer (see 'Minor adjustment of the polarizer' below).

Has the required station been found?

4 Selecting the programme number

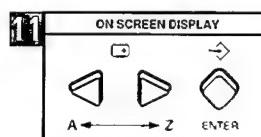


- Press  DOWN/ to select the programme number under which you want to store the station.
 Pressing  DOWN or  repeatedly changes the number one by one; keeping the button pressed changes the number rapidly.

5 Giving the station a name

If desired, a name can be programmed for the TV station found (max. 5 positions).

Follow the steps A to C.



- (A) Press   until the first required letter or number is found.
 You can insert a space, which is after Z and before 0.
 > A GREEN arrow indicates that a character can be selected.
- (B) Press  ENTER.
- (C) Press   again to select the next letter or number.
 If you want to erase the name, press  and  simultaneously. The name given is replaced by *****.

6 Storing programme number and name



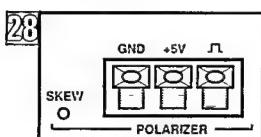
- Press EXECUTE .

Storing further stations

- Repeat steps 1 to 6.
 If necessary, change the antenna indication to a different polarization (e.g. A2 for vertical (V) in the table of programmes).

Minor adjustment of the polarizer

If the picture quality is not optimum, adjust the picture using the SKEW control.



- Insert a screwdriver in the SKEW control (on the back of the satellite tuner) and turn it until the best picture is received.

Table of all possible polarizer settings

INPUT 1

Select	A1	for Horizontal polarization	(H)
	A2	for Vertical polarization	(V)
	A3	for Right-hand circular polarization	(R)
	A4	for Left-hand circular polarization	(L)

INPUT 2

Select	A5	for Horizontal polarization	(H)
	A6	for Vertical polarization	(V)
	A7	for Right-hand circular polarization	(R)
	A8	for Left-hand circular polarization	(L)

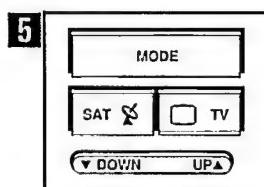
Notes:

- A maximum of 39 stations can be stored in the memory.
- If a bad picture appears it is possible that your dish antenna is not precisely directed at the satellite and needs adjustment.
- For D2 MAC stations, you can change the 5-letter programme name that is automatically allocated. See step 5 of 'Storing satellite TV stations' in this chapter.
- Programme numbers 00 and 40 are reserved for specific functions:

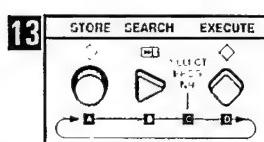
- 1) On PR00, D2 MAC signals received by your video recorder are processed by your satellite tuner for playing on your TV screen. This covers the situation when your video recorder is able to record and playback D2 MAC signals.
- 2) On PR40, D2 MAC signals received by your TV are processed by your satellite tuner for playing on your TV screen. This covers the situation when your TV is able to receive D2 MAC signals.

Sound selection PAL/SECAM

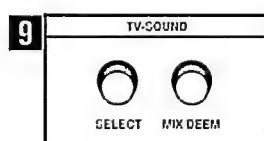
For PAL/SECAM transmissions, the sound must be programmed as follows:



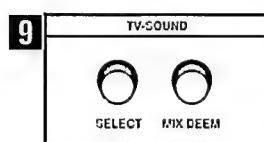
- Press ▼ DOWN/UP ▲ to select the required PAL/SECAM programme.



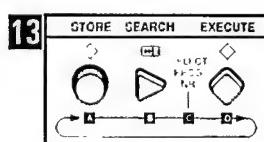
- Press STORE ◇ to open the memory.



- Press TV-SOUND SELECT to choose the sound that goes with the picture.
-> Each time you press this button, the tuner display shows S1 to S5.



- Press TV-SOUND MIX/DEEM to set up the sound as desired.
-> D1 or D2 appears.



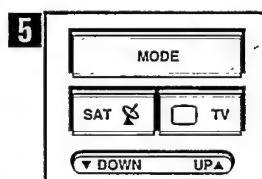
- Press EXECUTE ◇ to store your choice of sound.

Preferred languages (D2 MAC)

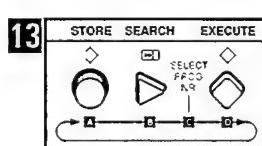
With D2 MAC transmitters you can select a language for sound and subtitles.

With most D2 MAC transmissions, various languages and subtitles are broadcast. Your satellite tuner then first checks whether your preferred language is one of them. If so, it is automatically selected. In addition, you can program second and third language preferences. If your first choice is not being broadcast, the tuner seeks further for the second and third languages.

If none of them are present, you see and hear the original language of the programme, often called 'Main sound' or 'Background'.

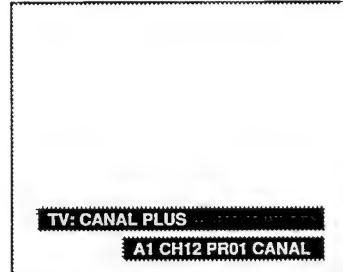


- ① Press ▼ DOWN/UP ▲ to select any D2 MAC programme.



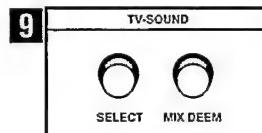
- ② Press STORE ◇ to open the memory.

> The screen shows, for example:



> PR flashes.

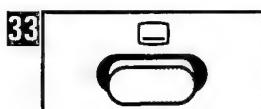
To select the sound



- ③ Press TV-SOUND SELECT.

> The header TV-SOUND flashes.



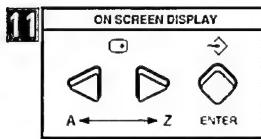
To select subtitles

④ Press (on the remote control).

> The header SUBTITLE flashes.

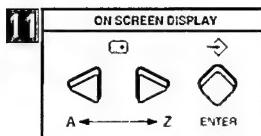


You can choose from the 14 languages in the above list.



⑤ Press or as many times as necessary to select the language you wish to programme as your first preference.

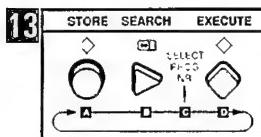
> The selected language appears in GREEN.



⑥ Press ENTER to hold your first choice.

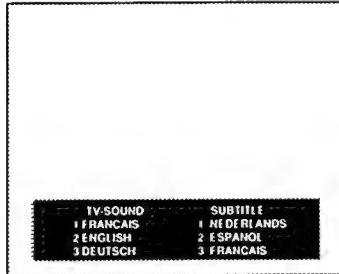
> The selected language moves to the top of the list.

Repeat steps ⑤ and ⑥ to select your second and third choice.



⑦ Press EXECUTE to store all preferred languages in the memory.

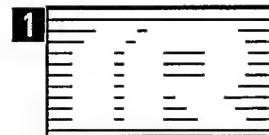
> The screen shows the languages in the order you chose.



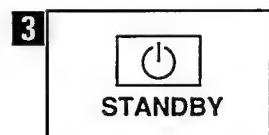
> The header TV-SOUND or SUBTITLE stops flashing.
After two seconds the text disappears from the screen.

OPERATION

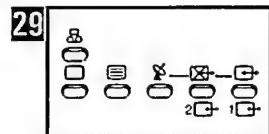
If you have a Philips or compatible TV and video recorder using similar remote control codes, you can use your satellite tuner remote control signals for all equipment.



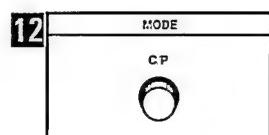
- Aim the remote control at the 'eye' of the satellite tuner.



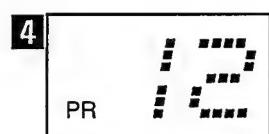
- Each time you press a button on the remote control, on the tuner flashes.

Selecting a satellite programme

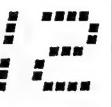
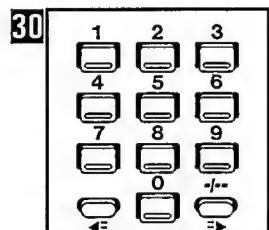
- Press (on the remote control) to select satellite reception.



- Press MODE C/P (on the satellite tuner) until the display shows PR and a number.



- > The display should show, for example:

**Selecting a programme number**

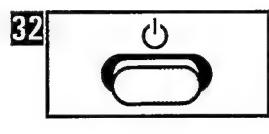
- Select the required programme number with the digit buttons 0-9.

For programme numbers of 2 digits (e.g. 21):

- Press and then select the required programme number (e.g. 21).
- Press first if you want to change from 1 to 2 digits and vice versa.

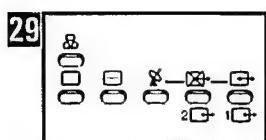
Standby

You can leave the satellite tuner on standby for an unlimited time and switch it on and off using the remote control.



- Press (on the remote control).

> on the tuner lights up.

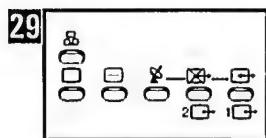
Switching on from standby

- First press and then to switch the tuner on again.

Switching back to normal TV viewing

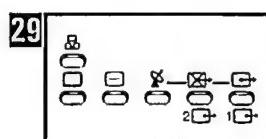
- Press (on the remote control).
- > The satellite is disconnected.

If no TV programme is shown?



- Press (on the remote control).

If you do not want to switch from satellite tuner to TV or video recorder, but only want to give a command, you just have to indicate for which equipment the remote control command is intended.

**To give commands to the satellite tuner:**

- First press .

To give commands to the TV set:

- First press .

To give commands to the video recorder:

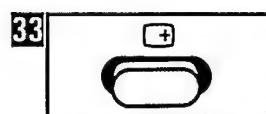
- First press .

You can now give any command to the equipment you have indicated.

The remote control always remembers the last selected equipment.

On Screen Display (D2 MAC)

OSD gives information about the picture on the screen.

OSD mode 1

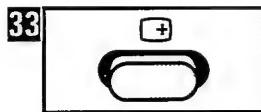
- Press briefly (for about 1 second).
- > OSD Mode 1 is selected and the screen shows, for example:

In the PRogramme mode

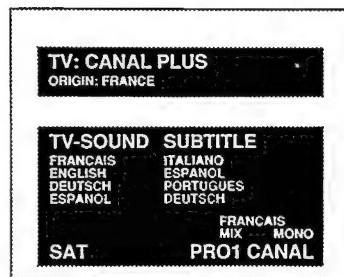
- the language you are listening to is in red
- the subtitle language you have selected is in blue
- MIX or DEMIX are the sound conditions you have selected
- STEREO or MONO indicate that the transmission is in stereo or in mono
- PR (e.g. 12) is the programme number selected followed by the name you chose for the programme

In the CChannel mode

- A1 up to A8 are the polarization settings of the tuner
- CH (e.g. 37) is the channel number of the selected programme
- Press briefly to switch the OSD off.

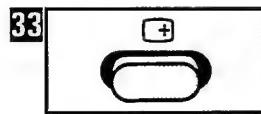
OSD mode 2

- Keep pressed until the screen shows, for example:

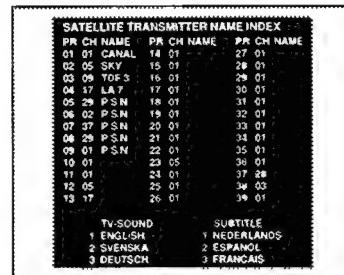


In addition to the information already given in mode 1, you will see:

- The name of the broadcasting organization
- The country sending the transmission
- The principal language appears at the top of the language survey.
- Press briefly to switch the OSD off.

OSD mode 3

- Press until the satellite transmitter name index appears:



— PR (the programme number your are watching in red)

— CH (the channel numbers for INPUT 1 in white and for INPUT 2 in blue)

— NAME (the station you are watching)

— TV-SOUND (the sequence in which you have programmed the preferred languages)

— SUBTITLE (the sequence in which you have programmed the preferred subtitle languages)

— For PAL/SECAM channels without name, you will see P/S/N instead of the name.

- Press briefly to switch the OSD off.

Displaying the time (D2 MAC)



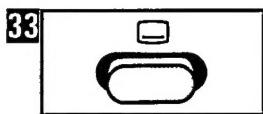
- Press to display the local time.
- Press again to switch off the time indication.

Selecting a language (D2 MAC)

Normally, you will use only one of the 3 selected languages (if transmitted). It is, however, possible to select another language from the OSD list.



- Each time I-II (on the remote control) is pressed, you will hear another language.



- Each time is pressed, you can read another subtitle language.

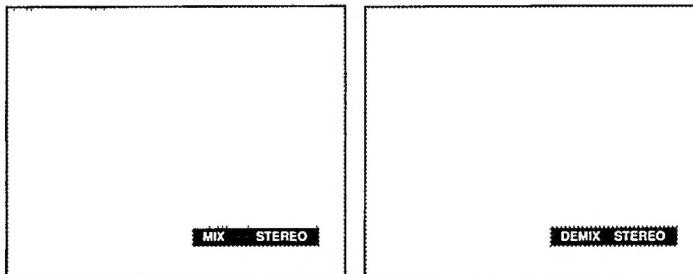
Mix/demix (D2 MAC)

In the MIX mode, you can listen to a second sound in addition to the main sound, if the transmitted signal makes this possible, for example the broadcast of a football match.

In the MIX mode you can hear the noise of the crowd and the voice of the commentator.

In the DEMIX mode, you can select one of these two sounds.

- Press (on the remote control) to select MIX or DEMIX mode.



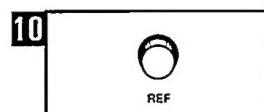
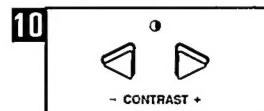
Colour and contrast (D2 MAC)

Colour and contrast have been set to a standard value in the factory.



Changing the settings

- Press — SATURATION + or — CONTRAST +.



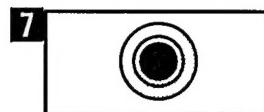
Returning to the standard value

- Press REF (on the tuner).

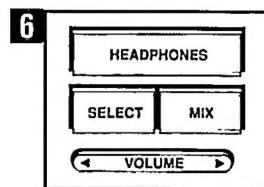
Note:

Changing the saturation and contrast levels extremely might result in poor recording of these programmes on your video recorder.

HEADPHONE CONNECTION (for D2 MAC signals)



- Connect a stereo headphone with an impedance between 8-800 Ohm and a 6.3 mm jack-type plug.



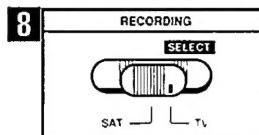
- Press **VOLUME** to adjust the sound level.
- Press **SELECT** to choose the headphone language.
- Press **MIX** to select mixed or unmixed mode for the headphones.

5

RECORDING

6

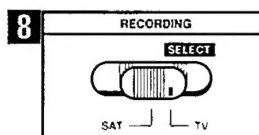
Recording satellite programmes



- Set **SELECT** (on the tuner) to **SAT**
 - to record a satellite programme while watching another TV programme.
 - to record a programme while watching it.
 - to record a programme while the TV is switched off. In this case the satellite tuner must be switched on and set to the programme being recorded.

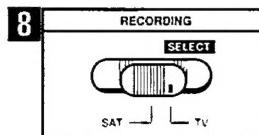
Recording normal aerial TV programmes

The satellite tuner can be switched on or off.

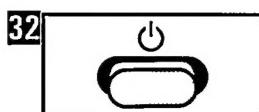


- Set **SELECT** (on the tuner) to either **SAT** or **TV**.

Recording from another peripheral connected to your TV



- Set **SELECT** (on the tuner) to **TV**.



- Press **POWER** to set the satellite tuner to standby.

Do NOT press POWER to switch off the satellite tuner completely when recording from another peripheral.

GENERAL SPECIFICATIONS

7

Reception

Frequency range : L-band 950 - 1750 MHz
Input level (WARC 77) : -62 to -30 dBm, 75 ohm

Telecommunication satellite reception

Video output : 1 Vpp into 75 ohm
Video bandwidth : 5 MHz, -3 dB
Audio frequency range : 5.5 to 8.5 MHz
De-emphasis switchable
J 17/50-75 mS
Audio frequency response : 30 Hz - 15 kHz

Direct broadcast satellite reception

Video bandwidth : 8.4 MHz
Return loss : -20 dB
Stopband attenuation : 45 dB above 11.5 MHz
Group delay variation : less than 100 nS between 1 and 8.5 MHz
Audio frequency response : 30 Hz - 15 kHz

Miscellaneous

Ambient temperature : 45°C Max.
Mains voltage and frequency : AC 220/240 V ($\pm 10\%$) 50 Hz
Power consumption : 48 watt (standby 7 watt)
Weight : 5 kg
Dimensions (hxwdx) : 90 x 420 x 330 mm

Accessories

Cable : 1 Eurocable
Remote control : RC 5550
Connectors : 1 IEC connector for satellite antenna Input 1

This product complies with the Radio Interference requirements of the Council Directive (82/499/EEC).

(GB) IDENTITY CARD	This card together with the terms of guarantee (to be provided by you dealer), forms the full certificate of guarantee for this appliance.
(D) GERATE-KENNKARTE	Diese Karte ist zusammen mit den Garantiebestimmungen, die Ihr Händler Ihnen ausstellt, Ihr Garantieschein für dieses Gerät.
(F) CARTE D'IDENTIFI-CATION	Accordée aux conditions de garantie (qui vous sont remises par le revendeur), cette carte constitue le certificat de garantie de cet appareil.
(NL) IDENTIFI-CATIEKAART	Deze kaart vormt, samen met de garantieverwaarden (welke door uw dealer verstrekt worden), het garantiebewijs voor dit apparaat.
(I) CARTE D'IDENTIFI-CAZIONE	Questa carta insieme alle condizioni di garanzia (che consegnate dal vostro rivenditore) rappresenta il documento di garanzia per questo apparecchio.
(E) TARJETA DE IDENTIFICACIÓN	La garantía de este aparato se compone de esta tarjeta y de las condiciones de garantía que le entregará su concesionario.
(P) CARTÃO DE IDENTIFICAÇÃO	Este cartão, em conjunto com as condições de garantia em vigor (explicadas pelo seu vendedor) constituem o certificado de garantia do seu aparelho.
(DK) ID. KORT	Dette kort udgivet af Deres forhandler, er tilstrækkelig garantidokumentation for dette apparat.
(N) IDENTIFIKASJONSKORT	Dette kort, sammen med garantisettningene (som Du får av forhandleren) utgjør garantisettet for dette apparat.
(S) IDENTIFIERINGS-KORT	Detta kort tillsammans med garantivillkoren, som Du får av din förhandlare, utgör ett fullständigt garantisett för denna produkt.
(SF) TUNNISTUS-KORTI	Tämä laitteen takuuutostus muodostuu tasta kortista ja takuuehdoista (jotkinne myös antaa mukaan).
(GR) ΔΕΛΤΙΟ ΤΑΥΤΟΤΗΤΑΣ	Η αρτηκή αυτή κάρτα με τις διεύθυνσης εγγυησίας (που θα παραχθεί σας από το παραπέμποντα σας αριθμούτοπο) αποτελεί την πιθανότερη πιστοποίηση για την εγγυησία.

PHILIPS



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